

**REQUEST FOR PARTICIPATION IN THE PATENT PROSECUTION HIGHWAY (PPH) PROGRAM BETWEEN THE JPO AND THE USPTO**

Application No.:	10/590,772	First Named Inventor:	Junichi MARUYAMA
Filing Date:	February 2, 2005	Attorney Docket No.:	50070-0113
Title of the Invention:	Organic EL Display Device, and Method for Driving the Organic EL Display Device		

THIS REQUEST FOR PARTICIPATION IN THE PPH PROGRAM ALONG WITH THE REQUIRED DOCUMENTS MUST BE SUBMITTED VIA EFS-Web. INFORMATION REGARDING EFS-Web IS AVAILABLE AT [HTTP://WWW.USPTO.GOV/EBC/EF5\\_HELP.HTML](http://www.uspto.gov/ebc/efs_help.html).

**APPLICANT HEREBY REQUESTS PARTICIPATION IN THE PATENT PROSECUTION HIGHWAY (PPH) PROGRAM AND PETITIONS TO MAKE THE ABOVE-IDENTIFIED APPLICATION SPECIAL UNDER THE PPH PROGRAM.**

The above-identified application (1) validly claims priority under 35 U.S.C. 119(a) and 37 CFR 1.55 to one or more corresponding JPO application(s) or to a PCT application that does not contain any priority claim, or (2) is a national stage entry of a PCT application that does not contain any priority claim.

The JPO/PCT application number(s) is/are: Please see attached sheet.

The filing date of the JPO/PCT application(s) is/are: Please see attached sheet.

**I. List of Required Documents:**

- a. **A copy of the latest JPO office actions (other than "Decision to Grant a Patent") in the above-identified JPO application(s)**

☐ Is attached.

☒ Is available via Dossier Access System. Applicant hereby requests that the USPTO obtain these documents via the Dossier Access System.

\*It is not necessary to submit a copy of the "Decision to Grant a Patent" and an English translation thereof.

- b. **A copy of all claims which were determined to be patentable by the JPO in the above-identified JPO application(s)**

☐ Is attached.

☒ Is available via Dossier Access System. Applicant hereby requests that the USPTO obtain these documents via the Dossier Access System.

- c. **English translations of the documents in a. and b. above along with a statement that the English translations are accurate are attached (if the documents are not in the English language).**

- d. **(1) An information disclosure statement listing the documents cited in the JPO office actions**

☒ Is attached.

☐ Has already been filed in the above-identified U.S. application on \_\_\_\_\_

**(2) Copies of all documents (except for U.S. patents or U.S. patent application publications)**

☒ Are attached.

☐ Have already been filed in the above-identified U.S. application on \_\_\_\_\_

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 119, 37 CFR 1.55, and 37 CFR 1.102(d). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.



## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**REQUEST FOR PARTICIPATION IN THE PATENT PROSECUTION  
HIGHWAY (PPH) PROGRAM BETWEEN THE JPO AND THE USPTO**

Application No.:10/590,772

**The JPO/PCT application number(s) is/are:** The allowed JPO application is **JP 2004-053625**.

The present application is a Continuation of Continuation of International Application No.  
**PCT/JP05/01483** which in turn claims priority of Japanese Application No. **JP 2004-053625**.

**The filing date of the JPO/PCT application(s) is/are:**

JP 2004-053625      FEBRUARY 27, 2004

PCT/JP05/01483      FEBRUARY 2, 2005

## A Notice of Reasons for Refusal

Patent application number: P2004-053625

Drafting date: December 1, 2005

Patent examiner: Atsuhiko Nishijima 9308 2G00

Applicant of patent: Nippon Seiki Co., Ltd.

Applied article: Article 29(1), (2), and Article 36

This application for a patent has been refused based on the reasons described below. The applicant shall submit a written opinion within six days from the date on which a notice has been served.

### Reasons for Refusal

1. In the patent application, the statement of the scope of claims as provided below, does not comply with the requirements under Article 36(6) (i), or 36(6) (ii).
2. The invention claimed in the patent application is an invention that was described in a distributed publication, or inventions that were made publicly available through an electric telecommunication line in Japan or a foreign country, prior to the filing of the patent application, and has fallen under any of the items of Article 29(1) (iii), a patent shall not be granted for such an invention.
3. The invention claimed in the patent application is an invention that a person ordinarily skilled in the art of the invention would have been able to easily make the invention based on an invention prescribed in a distributed publication, or inventions that were made publicly available through an electric telecommunication line in Japan or a foreign country, prior to the filing of the patent application, a patent shall not be granted for such an invention under Article 29 (2).

### Reason 1

#### Claim 4

1. The scope of the technical field of this invention is not clearly understandable which are described in claim 4 from the statement "temperature detecting means for detecting the temperature of said organic EL panel thereby to output temperature

data”, because it does not include descriptions how “the output temperature date” is related to other elements.

#### Claim7

2. The statement in claim 7 includes a description that the second potential is not an unselected potential but it can be a selected potential, however, there is not such explanation of the second potential in the detail description of the invention. Therefore, the invention regarding claim 7 cannot be recognized as it was written in the detailed description of the invention.

3. There is no explanation of “scanning switch means” prior to “said scanning switch means” is mentioned in the claim 7. Therefore, it is unclear what “said” applies to in the invention.

#### Claim 10

4. “connecting a plurality of scanning lines individually to one of a first potential and a second potential” inconsistent with the invention (it could be a mistake of a plurality of .....to ...or...).

5. There is no explanation of “scanning switch means” prior to “said scanning switch means” is mentioned in the claim 10. Therefore, it is unclear what “said” applies to in the invention.

#### Reason 2 and 3

- Claim 7 and 9
- distributed publication
  - A. 2003-202835
  - B. 2003-150113
  - C. 2003-076328

#### Remarks/Notes

Claim7 of the invention has not been found patentable due to prior listed reasons 2 and 3. Considering the explanation of comparison of the description for early examination, there is nothing in particular to differentiate the composition of this invention and the invention described in the distributed publication A.

Claim9 of the invention has not been found patentable due to prior listed reasons 3. It is a commonly known technique that an organic EL display device has a special property for temperature and adjustment of voltage according to the

temperature change. It is also a common technique idea to make an adjustment of scanning lines according to temperature change and it is well known as described in distributed publications B or C. Therefore, it is not specifically difficult to come up with the elements described in the above claim of the invention based on the above described technique idea on the invention described in the distributed publication A.

The claims in this application for a patent except the ones which are the focus of this notice of reasons for refusal, at this present time, reasons for refusal have not been found. In the case where there are new findings regarding reasons for refusal on the same invention, the applicant will receive a further notice of reasons for refusal.

## Claims

### Claim 1

An organic EL display device comprising: a dot-matrix type organic EL panel having a plurality of scanning lines and a plurality of drive lines; scanning switch means for connecting said scanning lines freely to a first potential or a second potential; drive switch means for connecting said drive lines freely to a drive current source or an off potential; and control means for causing said scanning switch means to connect said scanning lines to said first potential thereby to select said scanning lines sequentially and to control the connected state of said drive switch means, characterized:

in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the resistance of said scanning switch means corresponding to said scanning lines connected to said second potential to become an unselected state, into at least two stages.

### Claim 2

An organic EL display device as set forth in claim 1, characterized in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second transistor for connecting said scanning lines to said second potential.

### Claim 3

An organic EL display device as set forth in claim 2, characterized in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the bias voltage of said second transistor corresponding to said scanning lines connected to said second potential to become the unselected state, thereby to change said resistance.

### Claim 4

An organic EL display device as set forth in claim 1, characterized



by comprising temperature detecting means for detecting the temperature of said organic EL panel thereby to output temperature data, and said control means changes, according to the number of said drive lines to be connected to said drive current source and said temperature data, said resistance of said scanning switch means connected to said second potential.

Claim 5`

An organic EL display device comprising: a dot-matrix type organic EL panel having a plurality of scanning lines and a plurality of drive lines; scanning switch means for connecting said scanning lines freely to a first potential or a second potential; drive switch means for connecting said drive lines freely to a drive current source or an off potential; and control means for causing said scanning switch means to connect said scanning lines to said first potential thereby to select said scanning lines sequentially and to control the connected state of said drive switch means, characterized:

in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second transistor for connecting said scanning lines to said second potential; and

in that said control means changes, according to the number of said drive lines to be connected to said drive current source, the bias voltage of said second transistor corresponding to said scanning lines connected to said second potential to become an unselected state.

Claim 6

A drive method for an organic EL display device, comprising: connecting a plurality of scanning lines individually to one of a first potential or a second potential by scanning switch means; and connecting a plurality of drive lines individually to a drive current source or an off potential by drive switch means, characterized:

in that said scanning switch means includes a first transistor for connecting said scanning lines to said first potential, and a second

transistor for connecting said scanning lines to said second potential, ;  
and

in that according to the number of said drive lines to be connected  
to said drive current source, the bias voltage of said second transistor  
corresponding to said scanning lines connected to said second potential  
to become the unselected state, thereby to change said resistance, and the  
resistance of said scanning switch means connected to said second potential  
is changed into at least two stages.

Claim 7

An organic EL display device driving method as set forth in claim  
6, characterized in that according to the number of said drive lines to  
be connected to said drive current source and the temperature of said  
organic EL panel, the resistance of said scanning switch means connected  
to said second potential.

Claim 8

A drive method for an organic EL display device, comprising:  
connecting a plurality of scanning lines individually to one of a first  
potential or a second potential at scanning switch means ; and connecting  
a plurality of drive lines individually to a drive current source or an  
off potential at drive switch means, characterized:

in that said scanning switch means includes a first transistor for  
connecting said scanning lines to said first potential, and a second  
transistor for connecting said scanning lines to said second potential;  
and

in that according to the number of said drive lines to be connected  
to said drive current source, the bias voltage of said second transistor  
corresponding to said scanning lines connected to said second potential  
to become the unselected state.

Certification of Translation

I, Hitomi Kiyokawa, an employee of Nippon Seiki Co., Ltd., hereby declare that the translations I have rendered of the claims of US patent application No.10/590,772 and a notice of reasons for refusal for JPO application 2004-053625, to the best of my knowledge and belief, are true and accurate.

Sworn and subscribed this 10<sup>th</sup> day of December, 2007.



Signature

Hitomi Kiyokawa

Printed Name

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of	:	Customer Number: 20277
	:	
Junichi MARUYAMA	:	Confirmation Number: 2489
	:	
Application No.: 10/590,772	:	Group Art Unit: 2629
	:	
Filed: August 25, 2006	:	Examiner: Not Yet Assigned
	:	
For: ORGANIC EL DISPLAY DEVICE AND METHOD FOR DRIVING THE ORGANIC EL DISPLAY DEVICE		

**REQUIRED STATEMENT**

Mail Stop Patent Prosecution Highway  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with Subsection II.B. of the June 13, 2006 Notice concerning the Patent Prosecution Highway, Applicants state that the enclosed translation of the claims of the corresponding Japanese application are accurate.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit

Respectfully submitted,

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